

Appl. No. 09/844,114

Reply to office Action of September 21, 2004

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (canceled)

Claim 2 (currently amended): The method according to claim 21 ~~+~~, wherein the step of linking the high frequency signal with a signal for a natural alternating electromagnetic field comprises mixing the high frequency ~~HF transmission~~ signal with the signal for the ~~generating a~~ natural alternating electromagnetic field.

Claims 3-4 (canceled)

Claim 5 (currently amended): The method according to claim 21 ~~+~~, wherein the step of linking the high frequency signal with a signal for a natural alternating electromagnetic field comprises inserting the signal for ~~generating~~ a natural alternating electromagnetic ~~alternating~~ field into gaps of the high frequency ~~HF transmission~~ signal.

Claim 6 (currently amended): The method according to claim

21 †, wherein the natural alternating electromagnetic ~~alternating~~ field approximately conforms to an actual weather field.

Claim 7 (currently amended): The method according to claim 21 †, wherein the natural alternating electromagnetic ~~alternating~~ field conforms to a fair-weather field.

Claim 8 (original): The method according to claim 7, wherein said fair-weather field comprises at least one spectral time curve of sferics.

Claim 9 (currently amended): The method according to claim 6, further comprising the step of adjusting an ~~the~~ intensity of a signal ~~signals~~ fixing said actual weather field according to the high frequency ~~HF transmission~~ signal for optimizing a reduction of electrostress.

Claim 10 (currently amended): The method according to claim 7, wherein the natural alternating electromagnetic ~~alternating~~ field comprises at least one Schumann resonance.

Claim 11 (currently amended): The method according to claim 10, wherein the at least one Schumann resonance comprises an

intensity adjusted according to the high frequency HF ~~transmission~~ signal for optimizing a reduction of electrostress.

Claim 12 (currently amended): The method according to claim 6, further comprising the step of controlling the actual weather field by selective control information related to a weather situation.

Claim 13 (currently amended): The method according to claim 6, wherein signals fixing said actual weather field are time limited and assembled in endless signal trains.

Claim 14 (currently amended): The method according to claim 21 ~~±~~, further comprising the step of extracting the high frequency HF ~~transmission~~ signal in the receiver from ~~by~~ the signal for ~~generating~~ the natural alternating electromagnetic field having a given spectral time curve stored in a memory of the receiver.

Claim 15 (original): The method according to claim 14, wherein said extracting step occurs from an endless repeat spectra of sferics each being recognized in terms of time by means of time spectrum recognition in a respective repeat period.

Claim 16 (currently amended): The method according to claim 14, wherein said extracting step further comprises the step of digitally subtracting a selected signal for ~~generating~~ the natural alternating electromagnetic field from a received mixed signal spectrum.

Claim 17 (currently amended): The method according to claim 21, further comprising the step of applying the method 1, wherein ~~the method is applied~~ to telecommunications, using GSM and UMTS data transmission.

Claim 18 (currently amended): The method according to claim 21, further comprising the step of applying the method 1, wherein ~~the method is applied~~ to analog and digital radio and television signal transmission and radar transmission.

Claim 19 (currently amended): The method according to claim 21, further comprising the step of using the method 1, wherein ~~the method is used~~ for transmitting data via a wireless telephone.

Claim 20 (currently amended): The method according to claim 10, wherein the signal for ~~generating~~ a natural alternating

electromagnetic ~~alternating~~ field, and the at least one ~~signal~~
~~for generating a~~ Schumann resonance are emitted in the
transmitter via a series of antenna elements, and received in the
receiver via corresponding antenna elements, wherein the at least
one ~~signal for generating a~~ Schumann resonance is directly fed
into a corresponding antenna transmission element.

Claim 21 (new): A method of transmitting a high
frequency signal between a transmitter and a receiver, the method
comprising the steps of:

a) linking the high frequency signal with a signal for a
natural alternating electromagnetic field to form a linked
signal; and

b) extracting the high frequency signal from the linked
signal in the receiver.

Claim 22 (new): A method of transmitting a high
frequency signal between a transmitter and a receiver, the method
comprising the steps of:

a) modulating the high frequency signal on a signal for

Appl. No. 09/844,114

Reply to office Action of September 21, 2004

a natural alternating electromagnetic field to form a linked signal; and

b) extracting the high frequency signal from the linked signal in the receiver.

Claim 23 (new): A method of transmitting a high frequency signal between a transmitter and a receiver, the method comprising the steps of:

a) modulating a signal for a natural alternating electromagnetic field on the high frequency signal to form a linked signal; and

b) extracting the high frequency signal from the linked signal in the receiver.

Claim 24 (new): A method of transmitting a high frequency signal between a transmitter and a receiver, the method comprising the steps of:

a) generating a high frequency signal;

Appl. No. 09/844,114

Reply to office Action of September 21, 2004

b) providing a signal for generating a natural alternating electromagnetic field;

c) linking the high frequency signal and the signal for generating a natural alternating electromagnetic field to form a linked signal;

d) transmitting the linked signal to the receiver; and

e) extracting the high frequency signal from the signal for generating a natural alternating electromagnetic field in the receiver.